

SEVIER LAKE BASIN

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¹/4NW¹/4SW¹/4 sec. 31, T. 25 S., R. 4 W., Sevier County, Hydrologic Unit 16030003, on left bank on State Highway 4, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,680 ft above NGVD of 1929, from topographic map. Prior to November 5, 1993, 200 ft upstream at datum 3.0 ft higher.

REMARKS.--Records good. Slight regulation from several small reservoirs at headwaters, total combined capacity about 1,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 906 ft³/s, Aug 26, 1988, gage height, 2.40 ft, datum then in use, from rating curve extended above 400 ft³/s; minimum discharge, 0.88 ft³/s, Jan 17, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40, May 21, Jun 1; minimum discharge, 0.88, Jan 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	8.7	13	8.6	11	22	20	36	7.4	5.6	3.8
2	10	12	16	12	9.3	6.4	22	20	36	7.0	6.3	3.7
3	10	12	15	12	9.0	8.9	23	20	33	7.8	7.4	3.8
4	10	12	14	12	8.9	11	22	20	30	8.1	7.7	3.9
5	11	12	8.7	8.3	8.8	12	22	20	27	7.4	6.1	3.4
6	11	13	13	13	9.7	12	22	20	27	7.0	5.9	4.4
7	12	12	14	12	10	13	19	22	27	7.2	5.8	6.1
8	12	13	5.3	12	13	12	18	23	25	6.3	5.2	7.1
9	16	12	9.6	14	11	8.7	17	24	26	5.8	5.1	7.0
10	14	12	12	13	8.9	13	18	24	25	5.8	4.9	6.7
11	13	12	12	9.3	10	12	19	24	23	5.8	4.6	7.8
12	14	12	8.6	12	11	12	18	24	20	5.7	3.9	11
13	13	13	4.2	11	9.4	13	20	22	19	5.1	3.9	9.6
14	13	13	10	5.6	13	11	19	22	18	4.8	3.9	7.8
15	12	12	9.9	12	10	8.6	20	24	17	5.3	3.9	6.9
16	12	12	5.5	5.8	12	12	21	26	17	6.7	4.3	6.8
17	12	12	9.0	4.4	12	11	19	28	16	7.8	9.5	9.9
18	12	12	11	5.4	11	11	18	31	15	8.4	5.3	8.6
19	12	12	9.8	6.0	10	9.6	18	34	15	7.9	4.2	9.6
20	12	10	11	8.5	12	12	19	35	14	6.8	3.8	8.2
21	12	12	12	10	12	14	18	37	13	5.9	4.0	7.6
22	12	13	11	13	11	15	20	35	13	5.7	4.0	7.0
23	12	13	8.5	7.8	12	16	20	32	12	6.0	4.3	6.9
24	12	9.4	5.8	7.8	12	14	17	28	11	8.0	4.2	6.7
25	12	14	5.7	10	11	13	17	26	10	9.0	3.8	6.5
26	12	8.4	6.3	13	8.5	13	18	24	9.7	11	3.5	6.3
27	12	13	9.6	13	11	14	20	24	9.5	11	3.5	6.3
28	12	8.3	12	12	10	16	20	25	8.8	7.6	3.8	6.0
29	11	13	13	11	---	18	19	27	8.2	6.9	3.5	8.8
30	11	13	13	6.5	---	19	19	31	7.9	6.4	3.7	10
31	14	---	13	6.9	---	20	---	33	---	5.8	3.8	---
TOTAL	373	360.1	317.2	312.3	295.1	392.2	584	805	569.1	217.4	149.4	208.2
MEAN	12.03	12.00	10.23	10.07	10.54	12.65	19.47	25.97	18.97	7.013	4.819	6.940
MAX	16	14	16	14	13	20	23	37	36	11	9.5	11
MIN	10	8.3	4.2	4.4	8.5	6.4	17	20	7.9	4.8	3.5	3.4
AC-FT	740	714	629	619	585	778	1160	1600	1130	431	296	413

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	13.47	12.62	11.01	10.89	13.55	22.85	53.49	128.8	105.9	38.42	18.04	13.75
MAX	26.8	21.6	19.4	21.4	35.3	48.5	197	481	322	135	51.4	30.5
(WY)	1985	1985	1967	1984	1984	1986	1984	1984	1983	1995	1984	1984
MIN	6.62	7.30	4.29	4.50	5.86	10.1	10.9	21.9	19.0	7.01	4.74	4.20
(WY)	1960	1978	1978	1978	1978	1964	1963	1977	2002	2002	1977	1959

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1958 - 2002

ANNUAL TOTAL	9818.2	4583.0	36.97
ANNUAL MEAN	26.90	12.56	96.2
HIGHEST ANNUAL MEAN			1984
LOWEST ANNUAL MEAN			12.0
HIGHEST DAILY MEAN	143	May 18	1977
LOWEST DAILY MEAN	4.0	Jan 18	1.8
ANNUAL SEVEN-DAY MINIMUM	6.5	Jan 2	Aug 29
ANNUAL RUNOFF (AC-FT)	19470	9090	26780
10 PERCENT EXCEEDS	68	22	92
50 PERCENT EXCEEDS	13	12	16
90 PERCENT EXCEEDS	9.0	5.5	7.8